



Percentage Composition: C 41.38%; H 6.25%; N 19.30%; O 33.07%

Biological Source: Constit. of the shoots of apple and pear trees

>>**Derivative:** N^2 -[3-Carboxy-2-(carboxymethyl)-2-hydroxypropanoyl]

Synonym(s): N^2 -(2-Carboxymethyl-2-hydroxysuccinoyl)arginine

CAS Registry Number: 87605-91-2

Molecular Formula: $C_{12}H_{20}N_4O_8$

Molecular Weight: 348.312

Accurate Mass: 348.128116

Percentage Composition: C 41.38%; H 5.79%; N 16.09%; O 36.75%

Biological Source: Constit. of *Lilium maximowiczii* and the shoots of apple and pear tree

>>**Derivative:** *N*-(2,4-Dinitrophenyl)

Melting Point: Mp 260°

>>**Derivative:** N^G -Nitro

Synonym(s): N^5 -[Imino(nitroamino)methyl]ornithine, 9Cl

CAS Registry Number: 2149-70-4

Molecular Formula: $C_6H_{13}N_5O_4$

Molecular Weight: 219.2

Accurate Mass: 219.096755

Percentage Composition: C 32.88%; H 5.98%; N 31.95%; O 29.20%

Melting Point: Mp 257 dec.°

Optical Rotation: $[\alpha]_D^{20} +23$ (c, 2 in 2*M* HCl)

Aldrich: N1040-3

Fluka: 72750

Sigma: N5501

>>**Derivative:** N^G -Nitro, Me ester

CAS Registry Number: 50903-99-6

Extra CAS Registry Numbers(s): 51298-62-5

Molecular Formula: $C_7H_{15}N_5O_4$

Molecular Weight: 233.227

Accurate Mass: 233.112405

Percentage Composition: C 36.05%; H 6.48%; N 30.03%; O 27.44%

Use/Importance: Nitric oxide synthetase inhibitor

Physical Description: Cryst. (MeOH/Et₂O) (as hydrochloride)

Melting Point: Mp 159-161° (hydrochloride)

Optical Rotation: $[\alpha]_D^{25} +17.5$ (c, 3.2 in MeOH)

Other Data: CAS no. refers to hydrochloride

Other: PB N06618

>>**Derivative:** N^2 -β-D-Fructopyranos-1-yl

Synonym(s): N^2 -Fructopyranosylarginine. UK III

CAS Registry Number: 162966-07-6

Molecular Formula: $C_{12}H_{24}N_4O_7$

Molecular Weight: 336.344

Accurate Mass: 336.164501

Percentage Composition: C 42.85%; H 7.19%; N 16.66%; O 33.30%

Source/Synthesis: Constit. of Korean red ginseng

>>**Derivative:** N^2 -[α-D-Glucopyranosyl-(1→4)-β-D-fructopyranos-1-yl]

Synonym(s): N^2 -Maltulosylarginine. UK II

CAS Registry Number: 162966-06-5

Molecular Formula: $C_{18}H_{34}N_4O_{12}$

Molecular Weight: 498.486

Accurate Mass: 498.217326

Percentage Composition: C 43.37%; H 6.87%; N 11.24%; O 38.52%

Source/Synthesis: Constit. of Korean red ginseng